

RURAL WORKS DEPARTMENT

GOVT OF BIHAR



ESTIMATE FOR REPAIRING / RESTORATION/ MAKING MOTORABLE ROADS DAMAGED DURING FLOOD

NAME OF WORKS :- L045-Dabhari to Ghuran

BLOCK :- Supaul

FDR

98,55,604

YEAR(2024-25)

R.W.D., WORKS CIRCLE, MADHEPURA

R.W.D., WORKS DIVISION, SUPAUL

प्रतिवेदन

पथ का नाम
कार्य का नाम

:- L045-Dabhari to Ghuran

:- L045-Dabhari to Ghuran पथ में बाढ़ से क्षतिग्रस्त भाग में यातायात चालू कराने का कार्य।

प्राक्कलित राशि
पथ की लंबाई

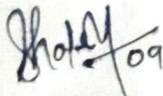
:- 12776989 Lac 98,55,604= 00

:- 3.250 KM

प्रसंगाधीन पथ कोसी नदी की मुख्य धारा के दोनों बाँध के बीच अवस्थित है। यह पथ बाढ़ के दिनों में प्रतिवर्ष बुरी तरह प्रभावित होता है। इस वर्ष (वर्ष-2024) में इस नदी में लगभग 56 वर्ष बाद अप्रत्याशित बाढ़ आई थी जिसमें लगभग 6,61,000 Cusec पानी का बहाव हुआ था साथ ही इस तरह बाढ़ माह जुलाई-2024 से माह अक्टूबर 2024 के बीच तीन बार बहाव आया था। इस पथ के लिए जिलाधिकारी, सुपौल के द्वारा मौखिक रूप से निर्देश दिया गया। पथ का तीनों बार Restrotation का कार्य कराया गया। लेकिन दुर्गभाग्यवश कोशी नदी के दोनों तटबंधों के बीच पथ अवस्थित रहने के कारण तीनों बार का Drone Videography नहीं हो सका। सिर्फ दो बार का ही हो सका। Drone Videography Phase-I, Phase-II एवं Phase-III का कराया गया एवं Notcam Time Stamp Photograph लिया गया। इस कारण वश प्राक्कलन में दो बार का Restrotation का कार्य का प्राक्कलन तैयार किया गया। उक्त पथ में तीनों बार यातायात चालू कर दी गई थी।

पथ के कटे (क्षतिग्रस्त) भाग में आवश्यकता अनुसार Brick Bats से कार्य कराया गया है एवं यातायात चालू कराया गया है। पथ के विभिन्न हिस्से में कराये गये कार्य का विवरणी स्पष्ट रूप से प्राक्कलन में दर्शाया गया है।

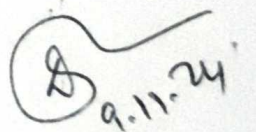
प्राक्कलन मदों का दर वर्तमान अनुसूचित दर पर तैयार किया गया। प्राक्कलन का प्रशासनिक स्वीकृति अपेक्षित है।

 09.11.2024

कनीय अभियंता,
ग्रामीण कार्य विभाग,
कार्य प्रशाखा, सुपौल।

 09.11.2024

सहायक अभियंता,
ग्रामीण कार्य विभाग,
कार्य अवर प्रमण्डल, सुपौल।

 09.11.24

कार्यपालक अभियंता,
ग्रामीण कार्य विभाग,
कार्य प्रमण्डल, सुपौल।

INSPECTION REPORT FOR MOTORABLE WORK

Name of PIUs :- R.W.D. Supaul.

Name of Block Road :- Supaul, / L045 - Dabhari to Ghuran.

A. For Road

1. Damage Location/Chainage :- 0.170 K.M, CH - 1.020 K.M to 1.062.50 K.M, etc,

2. Damage Length :- 58.0 M, 142.30 M

3. Nature of Damage (Length Wise) (i) Breach :- fully Breach,
(ii) Crust Damage :- yes
(iii) Only Flank Damage :-

whether traffic fully/Partialiy obstructed :-

4. Details of Restoration :-

(i) Material Being Used in Restoration :- Brick Bats

(ii) Equipment/Tools Being Used in Restoration Works :- Jcb, Track, Tractors, etc,

(iii) Restored Length - 58.0 M, 142.30 In open Area :- 200.30 M

In habitation Area :-

(iv) If Restoration work done in habitation Area give Reason :-

B. For Bridge (Size of Bridge/Culvert) - N/A

(1) Damage Location/Chainage :- N/A

(2) No. of Span Damage :- N/A

(3) Length of Span :- N/A

(4) Nature of Damage (Pier/Abuttment/
Wing Wall/Approach Road Damage) :- N/A

(5) Details of Restoration :- N/A

(i) Material Being Used in Restoration :- N/A

(ii) Equipment/Tools Being Used in Restoration Works :- N/A

(iii) Restored Length :- N/A

Overall Grade of Restoration work (Satisfactory/Unsatisfactory) :- Satisfactory

Signature of Inspector
(Official Seal)

14.11.2024
Executive Engineer
Rural Works Department
Works Division Udakishungani

Shruti
14-11-2024
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Shruti
14.11.2024
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SUMMARY OF COST ESTIMATE FOR THE PROJECT

NAME OF ROAD :-	L045-Dabhari to Ghuran	
DISTRICT :-	Supaul	
BLOCK :-	Supaul	
Length of Road:-	3.250KM	
Length of Cutting in mtr :-	200.80 M	
Sl. No.	DESCRIPTION	AMOUNT (LAKHS)
Phase-I & Phase-II		
1	Filling of local sand	0.00
2	Labour for cutting 62mm to 75mm dia bamboo	0.00
3	Labour for fitting 62mm to 75mm dia bamboo	0.00
5	Supplying of EC bag, of local sand	0.00
6	Supply and Carriage of brick bats	79,30,922 = 79.30922
7	Supply laying and carriage of 1000 mm HPC	0.00
8	Drone videography Three times	15000.00
	SUB TOTAL COST =	10459269.13
	ADD GST @18% =	1427566 = 14.27566
	Add Labour cess @ 1% =	79309 = 79.309
	Seigniorage Fees @10% =	402807 = 40.2807
	TOTAL (RS.) =	98,55,604 = 98.55604

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Technically Approved
 Technically sanctioned for Rs - 98,55,604 = 98.55604 (Ninty eight lakh
 twenty nine with seventy six Thousand nine
 hundred eighty nine Rupees only)

SE
 Technically approved for Rs 98,55,604 = 98.55604 (Ninty eight lakh
 fifty five thousand six hundred four only)

Superintending Engineer
 Rural Works Department
 Works Circle Madhepura

Bill of Quantity					
NAME OF ROAD :-		L045-Dabharl to Ghuran			
DISTRICT :-		Supaul			
BLOCK :-		Supaul			
Sl. No.	DESCRIPTION OF ITEMS	QUANTITY	UNIT	RATE (Rs.)	AMOUNT (Rs.)
1	Supply and Carriage of brick bats upto 8 km breach and placing in breaches and lying of bats, all complete job.	3869.42	CUM	2049.64	7930922.11
A) SUB TOTAL =					7930922.11
TOTAL COST =					7930922

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ESTIMATE FOR REPAIRING / RESTORATION/ MAKING MOTORABLE ROADS DAMAGED DURING FLOOD

Phase-II

NAME OF ROAD :-		L045-Dabhari to Ghuran							
DISTRICT :-		Supaul							
BLOCK :-		Supaul							
Length of Cutting :-		444.80 mtr 142.30							
Sl. No.	DESCRIPTION OF ITEMS	Unit	Nos.	L(m)	B(m)	D(m)	QUANTITY	RATE (Rs.)	AMOUNT (Rs.)
1	Supply and Carriage of brick bats upto 8 km breach and placing in breaches and tying of bats, all complete job.								
	At ch:-170M	cum	1	29.30	$(7.2+5+4.5)/3$	$(4.5+5.5+0.2284)/3$	882.30		
	At ch:-1020M	cum	1	18.00	$(5.5+4.5+4.5)/3$	$(1.25+1.95)/2$	139.20		
	At ch:-1050M 1038	cum	1	16.00	$(5.5+5)/2$	$(4+4.75)/2$	402.48		
	At ch:-1080M 1054	cum	1	8.50	$(5.5+6.5+4.5)/3$	$(3.45+4.65+3.55)/3$	181.56		
	At ch:-1090M 1062.50	cum	1	16.00	$(3+3.5)/2$	$(5+5.5+5)/3$	268.63		
	At ch:-1400M 1078.50	cum	1	38.00	$(5.5+6.5+4.5)/3$	$(1.65+1.55+1.75)/3$	344.86		
	At ch:-1450M 1116.50	cum	1	16.50	$(5.5+6.5+4.5)/3$	$(1.65+3.25+2.75)/3$	231.41		
		cum	total qty :-				2460.42	2,049.84	5022483.72
							A) SUB TOTAL =		5022483.72
							TOTAL COST =		5022483.72

Sholay 09-11-2024
Junior Engineer


09.11.2024
Asstt. Engineer

Executive Engineer

S.E
Madhepura

Calculation of Seigniorage Fees

NAME OF ROAD :-		L045-Dabhari to Ghuran			
DISTRICT :-		Supaul			
BLOCK :-		Supaul			
Sl. No.	DESCRIPTION OF ITEMS	QUANTITY	Unit	RATE (Rs.)	AMOUNT (Rs.)
1	Supply and Carriage of brick bats upto 8 km breach and placing in breaches and lying of bats, all complete job.	3869.42	cum	1041.00	4028068.30
A) SUB TOTAL =					4028068.30
Seigniorage Fees @10% of Basic Amount =					402807

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Analysis for Carriage by Road & Rail

Sl No	Item with Source	Unit	Source Up to	Carriage Cost & Lead in Km												Loading & Unloading Cost	Carriage Cost by Rail Head	Total
				Pucka / Surface						Katcha								
1	Local Sand	Cum	Local	8.00	x	7.47	x	2.00 Km	=	Rs 23.95	8.00	x	17.82	1.00 Km	=	Rs 28.57	104.88	Rs. 157.40
				4.99							4.99							
2	Brick	1000 Nos	Local	8.00	x	7.94	x	7.00 Km	=	Rs 222.32	8.00	x	19.22	1.00 Km	=	Rs 76.88	417.46	Rs. 716.66
				2.00							2.00							
3	Hume Pipe (1000 mm)	m	Karjain	8.00	x	7.94	x	106.00 Km	=	Rs 673.31	8.00	x	19.22	0.00 Km	=	Rs 0.00	73.32	Rs. 746.63
				10.00							10.00							
4	Hume Pipe (600 mm)	m	Karjain	8.00	x	7.94	x	106.00 Km	=	Rs 269.32	8.00	x	19.22	0.00 Km	=	Rs 0.00	31.42	Rs. 300.74
				25.00							25.00							
5	Hume Pipe (300 mm)	m	Karjain	8.00	x	7.94	x	106.00 Km	=	Rs 112.22	8.00	x	19.22	0.00 Km	=	Rs 0.00	31.42	Rs. 143.64
				60.00							60.00							
6	Brick Bats	Nos.	Local	3.60	x	18.64	x	7.00 Km	=	Rs 208.80	3.60	x	66.03	2.00 Km	=	Rs 211.30	227.60	Rs. 647.70
				2.25							2.25							

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Cost of Haulage Excluding Loading & Unloading as per SOR

Type of Road	Per Ton. Km by Tipper	Per Ton. Km by Truck
For Surface Road	11.70	7.94
Unsurface Gravel Road	14.00	9.55
Kachha Road	28.20	19.22

* Subjected to Verification of Lead

Type of Road	Per Ton. Km by	Per Ton. Km by
For Surface Road	Tractor	18.64
Unsurface Gravel Road		23.29
Kachha Road		66.03

Summary of Carriage Cost

Sl. No.	Particulars	Unit	Amount
1	c) Local sand	Cum	157.40
2	d) Local Sand at Site	Cum	300.72
3	Geo Bags	Nos.	238.20
4	a) Hume Pipe NP 3 (600 MM DIA)	m	300.74
5	b) Hume pie (600 dia) at site	m	2875.55
6	a)Hume Pipe NP 3 (1000MM DIA)	m	746.63
7	b)Hume Pipe NP 3 (1000MM DIA) at site	m	3504.85
8	Brick	per 1000	716.66
9	Brick Bats /hama metal	Cum	647.70

Shobhit 09-11-2024
Junior Engineer

Shobhit 09-11-2024
Assistant Engineer

Shobhit 09-11-24
Executive Engineer

BASIC RATES
(A) Labour

Sl. No.	Description of Labour	Unit	Rate (Rs.)
01	Bhisti	day	373.00
L-02	Bitumen Sprayer	day	393.00
L-03	Blacksmith	day	503.00
L-04	Blaster	day	619.00
L-05	Carpenter 1st Class	day	503.00
L-06	Carpenter 2nd Class	day	503.00
L-07	Chips spreader	day	449.00
L-08	Chiseller	day	577.00
L-09	Dresser (Skilled)	day	472.00
L-10	Driller	day	449.00
L-11	Electrician	day	503.00
L-12	Fitter	day	511.00
L-13	Mason (1st class)	day	503.00
L-14	Mason (2nd Class)	day	449.00
L-15	Mate	day	397.00
L-16	Mazdoor (Unskilled)	day	373.00
L-17	Mazdoor (Semi skilled)	day	388.00
L-18	Mazdoor (Skilled)	day	472.00
L-19	Painter (1st class)	day	476.00
L-20	Plumber	day	476.00
L-21	Surveyor	day	454.00
L-22	White Washer	day	476.00

Basic Rate of Material

Sl. No.	Ref. Code No.	Description of Labour	Rate (Rs.)	Unit
1		Filling E.C. Bags	629.20	%nos.
2		Placing E.C. Bags	911.00	%nos.
3		Filling E.C. Bags and Placing	1563.80	%nos.
4		Filling Geo. Bags	26.40	each
5		Placing Geo. Bags	34.30	each
6		Filling Geo. Bags and Placing	81.00	each
7		Filling E.C. Bags and Placing in N.C	388.50	each
8		Filling E.C. Bags and Placing in B.A. Wire Crates	1243.00	each
9		Filling Geo. Bags and Placing in N.C	364.20	each
10		Filling Geo. Bags and Placing in B.A. Wire Crates(Beggy)	1638.90	each
11		Filling Geo. Bags and Placing in B.A. Wire Crates(Box)	2003.10	each
12		Filling Geo. Bags and Placing in Gabbin 1.8x1.8x0.5	1092.60	each
13		Filling Geo. Bags and Placing in Gabbin 1.8x1.8x0.6	728.40	each
14		Already Filled E.C. Bags Placing in N.C	231.15	each
15		Already Filled E.C. Bags Placing in B.A. Wire crates	739.68	each
16		Already Filled Geo. Bags Placing in N.C	205.80	each
17		Already Filled Geo. Bags Placing in B.A. Wire Crates(Beggy)	926.10	each
18		Already Filled Geo. Bags Placing in B.A. Wire Crates(Box)	1131.90	each
19		Already Filled Geo. Bags Placing in Gabbin 1.8x1.8x0.5	617.40	each
20		Already Filled Geo. Bags Placing in Gabbin 1.8x1.8x0.6	411.60	each
21		Supply of bamboo 75mm dia	162.70	each
22		Carriage of bamboo 75mm dia lead 5km us	8.70	each
23		Supply of bamboo 100 mm dia	173.70	each
24		Carriage of bamboo 100 mm dia lead 5km us	9.30	each
25		Supply of binding wire	75.04	Kg
26		Laying of porcupine Without boat	834.80	each
27		Laying of porcupine with boat	877.90	each
28		Bamboo pilling with jet pump	38.20	each
29		Bamboo pilling with jet pump	358.00	each
30	M-189	Tree spur	56.20	KL
31	e(ii)	Water	1041.00	per cum
32	M-006	Brick Bats	143.32	per cum
33		Local/Fine Sand	55.84	per kg
34	222(i)	Nails	117.65	each
35	232	Bamboo 75mm dia 6m to 8m long	19.75	per kg
36	M-120	Sutali	494.00	per cum
37	M-121	Coarse Sand	143.32	per cum
38	M-081	Sand (Fine)	5850.40	per mt
39		Cement	2758.22	per mt
40	M-159	HP 1000mm dia NP3	2574.81	per mt
41	275	HP 600mm dia NP3	8.46	per nos..
42	276	Sand Bags (Cost of sand and empty cement bag)	292.00	per %nos.
43	M-017	Old empty cement bag(synthetic)(Annexure-I)	39.85	Each
44	M-016	Nylon Crate of size 1mx1mx1m	494.15	Cum
45	M-015	Aggregate 40 mm	604.91	Cum
46	M-047	Aggregate 20 mm	668.8	Cum
47	M-103	Aggregate 10 mm	115.16	litre
48	M-150	Cement Primer	516.42	litre
49	M-151	Paint (Synthetic Enamel)	516.42	Cum
50	M-152	Well Graded Material for Sub-Base - Grading I 53 mm to 9.5 mm	411.33	Cum
51	M-105	Well Graded Material for Sub-Base - Grading II 9.5 mm to 2.36 mm	185.94	Cum
52		Well Graded Material for Sub-Base - Grading III 2.36 mm below	14.35	Sqm
53		Polythene sheet (125 micron)	69.3	per kg
54		G.I. wire 3.15 mm dia	34.81	Cum
		Compensation for earth taken from private land	30	Nos.
		Stitching Role		

BASIC RATES
(C) USAGE RATES OF PLANT & MACHINERY

Sr. No.	Description of		Output of Machine		Usage Rates in Rs.	
	Machine	Activity	Unit	Output	Unit	Rate
PM-008	Dozer - D 175 HP	Dozing cutting	cum/h	200.00	per hour	4,249.00
			cum/h	100.00		4,249.00
PM-013	Hydraulic Excavator 0.9 cum	Excavation	cum/h	100.00	per hour	2,272.00
	Hire Charge of stitching machine		Day	50.00	per Day	50.00
	Hire Charge of Manual Trolley		Day	50.00	per Day	50.00
	Hire Charge of 3KVA generator		Hour	74.00	per Hour	74.00
PM-017	Front end-loader 1 cum bucket capacity	Loading Aggregates	cum/h	25.00	per hour	2,033.00
		Loading Soil	cum/h	60.00		2,033.00
PM-032	Motor Grader	Scarifier & levelling	cum/h	200.00	per hour	4,403.00
				50.00		1,100.75
	Tractor Mounted Grader					
	Time taken for onward haulage with load		Hour	612.00	per Hour	612.00
	Time taken for empty return trip.		Hour	612.00	per Hour	612.00
PM-033	Needle vibrator	Vibrating cement concrete mix	cum/h	3.50	per hour	386.00
PM-035	Paver finisher	Laying/spreading	Cum/h	40.00	per hour	2,141.00
PM-086	Plate compactor	Compaction	cum/h		per hour	469.70
PM-087	Plate vibrator	Compaction	cum/h		per hour	469.70
PM-088	Screed vibrator	Compaction	cum/h		per hour	102.64
PM-044	Smooth wheeled 80-100 kN tandem roller	Compaction of Sub-base/ Asphalt	cum/h	30.00	per hour	1,978.00
PM-045	Stone crusher (Integrated) of 200 TPH	Crushing of Spalls	t/h	200.00	per hour	27,581.30
PM-046	Three wheel 80-100 kN Static Roller	Compaction/ Rolling			per hour	1,518.00
		Earth:- Embankment or sub-grade	cum/h	80/70		1,518.00
		Sub-base G-I	cum/h	10.00		1,518.00
		Sub-base G-II/G-III	cum/h	8.00		1,518.00
		WMM	cum/h	16.00		1,518.00
PM-047	Tipper 5.5 cum/10 t	Carriage	cum/trip	5.50	per hour	1,426.00
PM-048	Tractor with Disc Harrows	Pulverisation of soil	cum/h	80.00	per hour	549.10
PM-049	Tractor with ripper @ 60 cum per hour	Ripping Pavements, uprooting trees	cum/h	60.00	per hour	629.00
PM-050	Tractor with trolley/with Grading equipment	Transportation of materials	t/trip	3 to 5	per hour	629.00
PM-051	Tractor with Rotavator	Scarifier	cum/h	25.00	per hour	573.20
PM-052	Truck 10 t capacity	Carriage	cum/trip	5.50	per hour	934.50
PM-053	Vibratory roller 80-100 kN	Compaction of soil WMM	cum/h	100.00	per hour	2,338.00
		Compaction of BM	cum/h	60.00		2,338.00
		Carriage of water	litre / h	12000.00	per hour	752.00
PM-054	Water tanker 6 kl capacity (Truck Mounted)					
PM-055	Wet mix plant (Pug Mill)	Wet Mix	cum/h	25.00	per hour	1,822.30

Analysis of Rate

OR No.	Description	Unit	Qty	Rate(Rs.)	Amount (Rs.)
Carriage of materials (By Tractor)					
1.4	Cost of Haulage excluding Loading & Unloading				
RCD	Haulage of materials by Tractor excluding cost of loading, unloading and stacking.				
	Unit =				
	Taking output 3.60 Tonne load and lead 10 km = 36.0 t.km				
	Case-I: Surfaced				
	Speed with load: 15 km per hour				
	Speed while returning empty: 25 km per hour				
	a) Machiner				
	Tractor 3.6 t capacity				
	Time taken for onwads haulage with load	hou	0.667	629.00	419.54
	Time taken for empty return trip	hou	0.400	629.00	251.60
	Total				671.14
	Add OH@12%				-
					671.14
	Rate per Ton.km				18.64
	Case-II: Unsurfaced				
	Speed with load: 12 km/hour				
	Speed for empty return trip: 20 km/hour				
	a) Machiner				
	Tractor 3.6 t capacity				
	Time taken for onwads haulage with load	hou	0.833	629.00	523.96
	Time taken for empty return trip	hou	0.500	629.00	314.50
	Total				838.46
	Add OH@12%				-
					838.46
	Rate per Ton.km				23.29
	(c) Case-III: Katcha Track and Track in River Bed / Nallah Bed and Choe Bed				
	Speed with load : 10 km / hour				
	Speed with returning empty : 15 km / hour				
	(a) Machinery				
	Tipper 10 tonnes or 5.5 cum capacity	hour	1.000	1,426.00	1,426.00
	Time taken for empty return trip	hour	0.667	1,426.00	951.14
	Total				2,377.14
	Add OH@12%				-
	Cost for 36.0 t.km =a+b				2,377.14
	Rate per Ton.km				66.03
2	6.6.1. Labour for laying Brick bats /dry graded jhama khoa or stone filter under Brick Pitching or Boulder pitching in slope or apron including light ramming etc. all complete job as per approved design, specification and direction of E/I				
	WRD Unit = Per Cum				
	Taking output= 2.832 Cum				
	a) Labour				
	Mazdoor (Unskilled)	Nos	3.00	373.00	1,119.00
	b) Overheads @ 12% on (a)				0.00
	Rate for 2.832 Cum				1,119.00
	Rate Per Cum				395.13

1.1		Loading and Unloading of Stone Boulder, Stone aggregate ,Sand, Kankar,Moorum , Brick Bats and Sand etc.				
RCD		Unit = Per Cum				
		Taking output= 2.25 Cum				
		Time required for				
		i)	Positioning of tipper at unloading point	day	1 Min	
		ii)	Loading by front end loader 1 cum bucket capacity @ 25 cum per hour	day	5Min	
		iii)	Maneuvering, reversing, dumping and turning for return		0Min	
		iv)	Waiting time, unforeseen contingencies etc	hou r	0Min	
		Total			6Min	
		a)	Labour			
			Mate	day	0.03	397.00
			Mazadoor for Loading and unloading	day	0.72	373.00
						11.91
		b)	Machinery			
			Tractor 3.6 t capacity	Hou	0.10	629.00
			Front end loader 1 cum bucket capacity @ 25 cum per	Hou r	0.08	2,033.00
						168.74
						512.11
			Add OH@12%			-
						512.11
			Rate per Cum=(a+b+c)/2.25			227.60
		Note:-	Unloading will be done Manually.			
4	9.3	1100	Laying Reinforced Cement Concrete Pipe NP3 as per design in Single Row .			
			1000 mm dia Hume Pipe			
			Unit=m			
			Taking Output=7.5 m			
		a	Material			
			Sand at site	cum	0.04	3,293.47
			Cement at site	ton	0.03	6,427.68
			RCC pipe NP3 pipe inclusing collar at site	m	7.50	3,504.85
						26286.38
		b	Labour			
			Mate	day	0.09	397.00
			Mason (1 class)	day	0.25	503.00
			Mazdoor(Unskilled)	day	2.00	373.00
						746.00
						27,518.42
			Add OH@12%			-
						27,518.42
			Cost for 7.50 m =			27,518.42
			Rate per M=			3,669.12
5			(Providing and laying of brick bats obtained from chimney with machnical means with all spreading gradding to required slope and compacted at OMC to achieve required density with all completed as per direction of E/I)			
			Taking out put=100 cum			
		a)	Labour			
			Cost of Labour for Pitching and Light	day	1.00	360.94
		b)	Materials			
			Bricks Bats Basic Rate Taken From RCD	Cum	1	1041.00
			Add:Carriage Charge for Brick bats			647.70
			Total Cost			2,049.64
			NET TOTAL COST PER CUM			2,049.64
			SAY Rs			2,049.64

5.7.7		Labour for cutting 62 mm to 75 mm dia sal bamboo piles to size and making shoes and driving etc. complete job as per specification and direction of E / I.			
WRD		Unit :- Per M			
		Taking Out put:- 30.50 Mtr			
		(Assuming 20 nos. pile sunk 1.525 mtr deep)			
	(a)	Labour			
		Carpenter Gr II	Nos	1.00	503.00
		Unskilled mazdoor for pilling	Nos	3.00	373.00
					1,622.00
		Overheads @ 12%			
					1,622.00
					1,622.00
		Rate Per M			53.18
7	5.7.8	Providing fitting and fixing split bamboo woven chachari in position with 20 swg G.I. wire or 75 mm to 100 mm long nails alternatively including cost of G.I. wire 3.15 mm dia or nails complete job as per specification and direction of E / I.			
		Unit :- Per M2			
		Taking Out put:- 9.30 Sqm			
		(Assuming strip of 3.05x3.05 = 9.30 sqm)			
	a	Material			
	1	75 mm to 100mm long nail	kg	0.25	55.84
	2	Bamboo -75mm dia to 62 mm dia			13.96
		Bamboo @75mm = 3050/75 = 40.67			
		Say=41Nosx3.05=125.05M			
		Add for Lower Binder of chachari			
		10x3.75=30.50M			
		Runner @150mmc/c=7x3.05=21.35M			
		Total length of Bamboo=176.9M			
		Total No of Bamboo=176.9/6=30No	No	30	117.65
					3529.5
	b	Labour			
		Carpenter Gr II	Nos	1.00	503.00
		Unskilled mazdoor for pilling	Nos	1.00	373.00
		Overheads @ 12% on labour charge			
					4,419.46
		Rate Per M2			475.21
8	5.7.8	Labour for fitting and fixing split bamboo woven chachari in position with 20 swg G.I. wire or 75 mm to 100 mm long nails alternatively including cost of G.I. wire 3.15 mm dia or nails complete job as per specification and direction of E / I.			
	WRD	Unit :- Per M2			
		Taking Out put:- 9.30 Sqm			
		(Assuming strip of 3.05x3.05 = 9.30 sqm)			
	(a)	Material			
		G.I. wire 3.15 mm dia	Kg	0.250	69.30
	(b)	Labour			
		Carpenter Gr II	Nos	1.00	503.00
		Unskilled mazdoor for pilling	Nos	1.00	373.00
					893.33
		Overheads @ 12%			
					893.33
					893.33
		Rate Per M2			96.06
9	5.7.9	Labour for fitting and fixing 62mm to 75 mm dia bamboo runners in position at every vertical pile with 150 mm long nails or 38 swg G.I. wire including cost of G.I. wire or nails complete job as per specification and direction of E / I.			
	WRD	Unit :- Per M			
		Taking Out put:- 30.50 Mtr			

		(a)	Materials				
			Cost of 150 mm long nails	Kg	0.50	55.84	27.92
		(b)	Labour				
			Carpenter Gr II	Nos	0.13	503.00	65.39
			Unskilled mazdoor for piling	Nos	0.25	373.00	93.25
							186.56
			Overheads @ 12%				-
							186.56
							186.56
			Rate Per M				6.12
10			Supplying bamboo 75 mm dia 6 m to 8 m long at complete job as per specification and direction of E / I.				
			Taking Out put:- 115 nos				
		(a)	Material				
			Supplying bamboo 75 mm dia 6 m to	Nos	115	162.70	18,710.50
			Add:Carriage Charge for				292.22
			Add Labour for laying				395.13
							19,397.85
			Overheads @ 12%				-
							19,397.85
							19,397.85
			Rate Per each Bamboo				168.68
11	5.7.40.1		Labour for filling empty cement bags with local sand, stitching the bags and placing including supply of sutli etc. all complete as per approved design, specifications and direction of E/I				
	WRD		Unit :- Per % nos				
			Taking Out put:- 100 nos				
		(a)	Supplying of Sand bags	Nos	100	8.46	846.00
			Carraige cost for Local sand (100 no. of	cum	3.4	300.72	1022.45
						Total	1868.45
		(b)	For filling & stitching & stacking				
			(a) Unskilled mazdoor for filling sand into bags and sewing	Nos	2	373	746.00
			(b) Sutali	Kg	0.5	19.75	9.88
						Total	755.88
		(c)	Labour rate for Carring & Placing to work site of E.C.Bags				
			(a) Unskilled mazdoor for carring filled bags and placing to work site	Nos	3	373	1119.00
			Total (A+B+C)=				3743.32
			Add overhead chrage @12%				0.00
							3743.32
			Total Net Rs.				3743.32
			Rate per %				37.43
			Sand Each Bag			Say	Rs 37.43
12	5.7.40.2 WRD SOR Page 159		Labour for filling empty cement bags with loocal sand, stitching the bags and placing in Nylon crate of size (1 m x 1 m x 1 m) with lead of 150 M including supply of sutli etc. at site in dry portion all complete as per approved design, specification and direction of E/I				
			Unit :- Each N.C				
			Taking Out Put = 25 nos. filled E.C. Bags in each N/C				
			Cost of 25 nos of filled E.C.Bags (Vide item no. 5.7.40.1	Nos	25	37.43	935.83
			Rate each				935.83
13			Supply of Nylon Crate of size 1mx1mx1m			39.85	39.85
			Material				
		(a)	Nylon Crate				39.85
		(b)	Add Overhead charge @12%				0.00
			Total (a+b)				39.85
			Rate per nos.				39.85

14	11.2	Sand filling in Foundation Trenches as per Drawing & Technical Specification							
		Unit = Per Cum							
	a	Material							
		Sand(assuming 20 percent voids)							
	b	Labour	cum	1.20	143.32	171.98			
		Mate	day	0.01	397.00	3.97			
		Mazdoor(Unskilled)	day	0.3	373.00	111.90			
						287.85			
		Add overhead charge @12%							
						0			
						287.854			
		total=							
						287.85			
		Carraige cost for Local sand							
						292.22			
		Rate per cum							
						580.07			

Prusze 1



Latitude: 26.154723
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Altitude: 7.5±90 m
Accuracy: 6.5 m
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Note: dhawari se ghura

Powered by NoteCam



Latitude: 26.151381
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Elevation: 48.23±51 m
Accuracy: 214.8 m
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Note: dhawari se ghura

Powered by NoteCam



Latitude: 26.154832
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Elevation: 79.55±101 m
Accuracy: 3.6 m
Time: 08-30-2024 17:12
Note: dhawari se ghura

Powered by NoteCam

Shri 01/09-11-2024
T.S

09.11.2024
AB

Signature

Executive Engineer
R.W.D. W.D. Supaul



Latitude: 26.154806
Longitude: 86.579939
Elevation: 30.77±10 m
Accuracy: 8.7 m
Time: 10-21-2024 14:56
Note: dabhari to ghuran

Powered by NoteCam



Latitude: 26.151577
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Elevation: 52.63±38 m
Accuracy: 14.4 m
Time: 13-07-2024 16:29
Note: घुरण

Powered by NoteCam

Sholay
10-11-2024
T.S


09.11.2024
AB



Executive Engineer
R.W.D. W.D., Supaul



Latitude: 26.155654
 Longitude: 86.576923
 Elevation: 53.06±24 m
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Time: 09-04-2024 15:42
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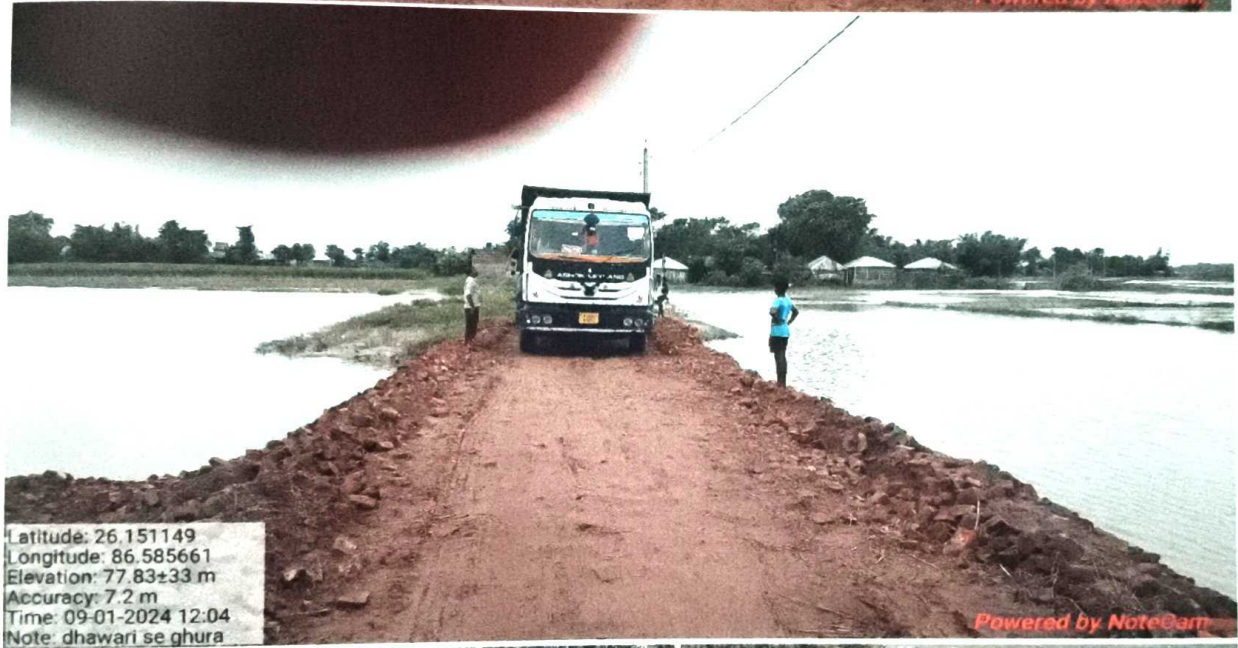
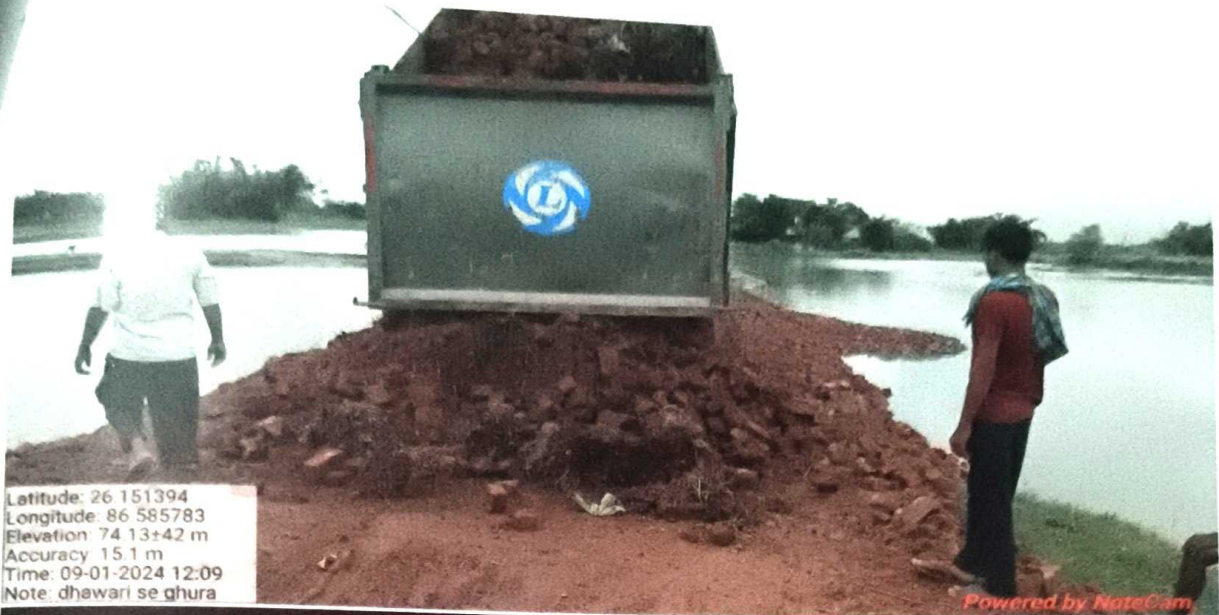


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 Accuracy: 7.8 m
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 Note: dabhari to guran

Shafay
 09-11-2024
 T.S

Sc
 09.11.2024
 AS

Baran
 Executive Engineer
 J.V.D.W.D., Supaul



Shafay
 09-11-2024
 TS

Se
 09.11.2024
 AB

Barry M
 Executive Engineer
 R.W.D. W.D., Supaul



Shakeel
 09-11-2024
 DS

AB
 09.11.2024
 AB

R.W.D. W.D., Supaul
 Executive Engineer
 R.W.D. W.D., Supaul

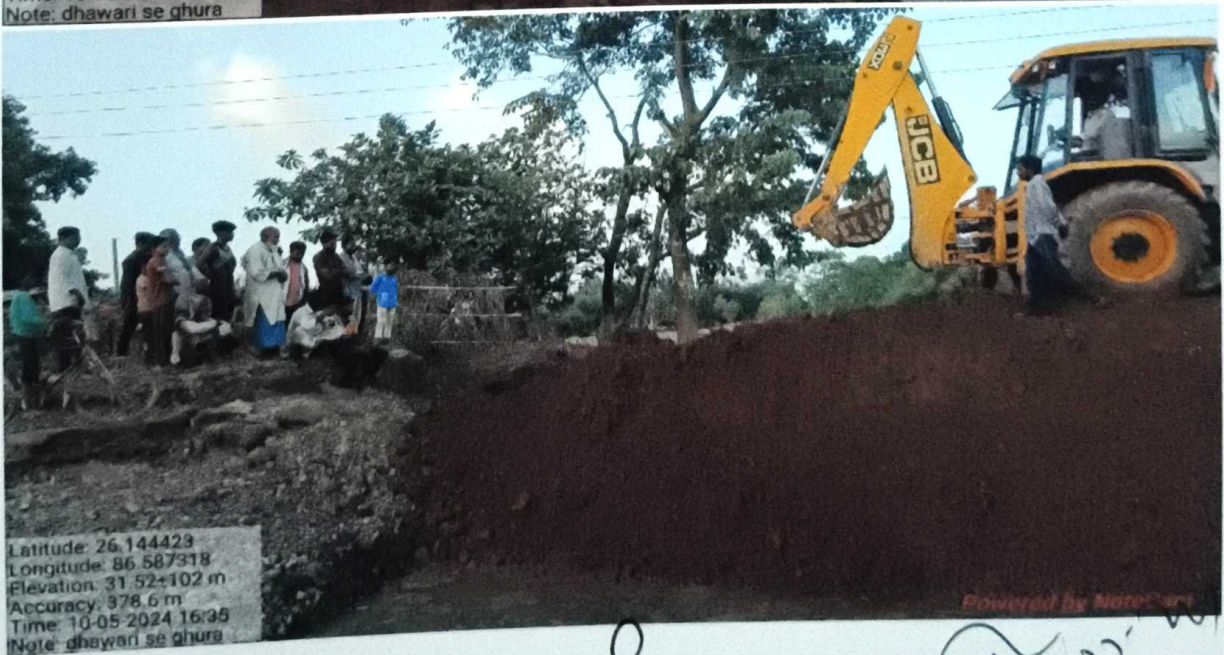
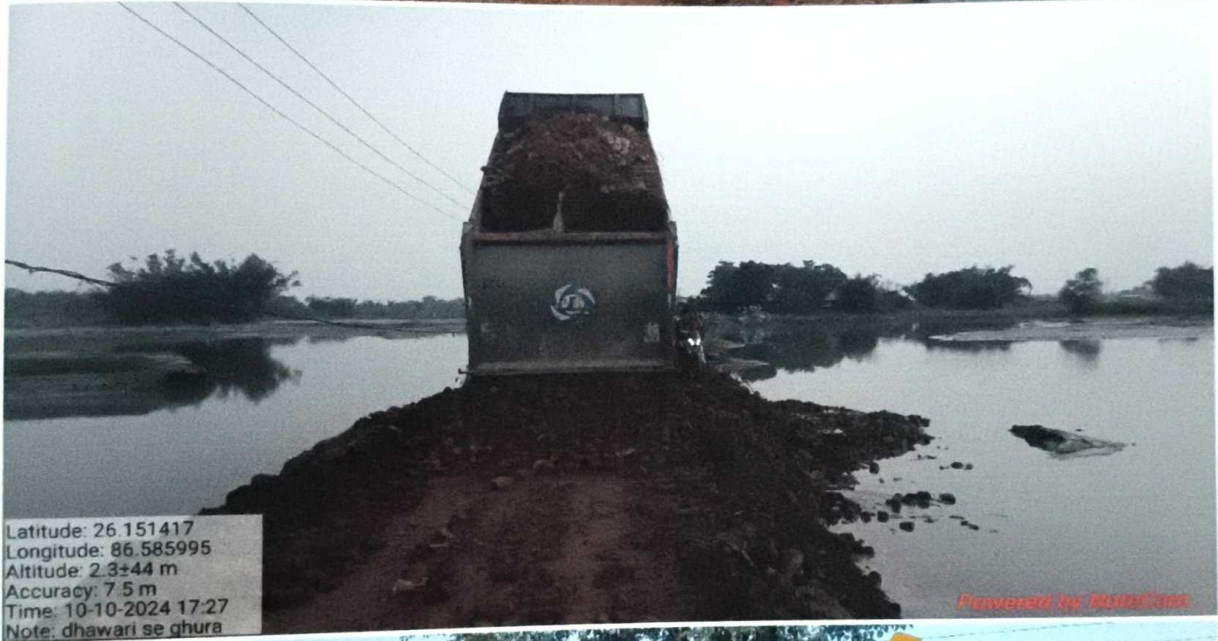


Shahid
 09-11-2024
 T.S

Shahid
 09.11.2024
 AB

Shahid
 Executive Engineer
 R.W.D. W.B. Subauri

Phase - II



Shafiq
09-11-2024
P.S

09.11.2024
AB

Executive Engineer
R.W.D. W.D., Supaul



Signature
 09/11/2024
 To,

Signature
 09.11.2024
 AO

Signature
 Executive Engineer
 R.W.D. W.D. Supaul



Latitude: 26.144244
Longitude: 86.587502
Elevation: 74.82±15 m
Accuracy: 23.0 m
Time: 10-02-2024 12:52
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Powered by NoteCam



Latitude: 26.143887
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Elevation: 66.92±100 m
Accuracy: 8.7 m
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Note: dhawari se ghura

Powered by NoteCam



Latitude: 26.144073
Longitude: 86.587192
Elevation: 136.48±413 m
Accuracy: 165.1 m
Time: 10-02-2024 11:02
Note: dhawari se ghura

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Shreyas
09-11-2024
T.S

09.11.2024
AB

Executive Engineer
R.W.D. W.D., Supaul



Sheloy
 19-11-2024
 T.S

Sc
 09.11.2024
 AD

Saimu
 Executive Engineer
 R.W.D. W.D., Supaul



Latitude: 26.151449
Longitude: 86.585791
Elevation: 74.34±27 m
Accuracy: 9.9 m
Time: 09-11-2024 15:50
Note: Ghuran To Davhari

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Latitude: 26.15067
Longitude: 86.585482
Elevation: 74.33±25 m
Accuracy: 4.2 m
Time: 09-11-2024 15:47
Note: Ghuran To Davhari

Powered by NoteCam



Latitude: 26.144058
Longitude: 86.587362
Elevation: 74.32±100 m
Accuracy: 172.1 m
Time: 09-11-2024 15:44
Note: Ghuran To Davhari

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Shafiq
09-11-2024
TOS

09-11-2024
AS

Executive Engineer
R.W.D. W.D., Supaul



Shafay
 09-11-2024
 TOS

De
 09.11.2024
 AB

Da-17-24
 Executive Engineer
 R.W.D. W.D., Supaul